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#### FIG. 1A

#### GAATTCTCTGGACTGAGGCTCCAGTTCTGGCCTTTGGGG TTCAAGATCACTGGGACCAGGCCGTGATCTCTATGCCCGAGTCTCAACCCTCAACTGTC ACCCCAAGGCACTTGGGACGTCCTGGACAGACCGAGTCCCGGGAAGCCCCAGCACTGCC GCTGCCACACTGCCCTGAGCCCAAATGGGGGAGTGAGAGGCCA TAG CTG TCT GGC **S10** S5 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA CTG GTG CTC 225 . . S25 **S29 S20** Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC

# FIG. 1B

Arg Asr CGG GAC 576	Thr ACC	GTG	Cys TGT 85	Gly GGC	TGC	Arg AGG 94	100 Lys AAG	Asn AAC	Gln CAG 03	Tyr	CGG	105 His CAT 12	Tvr
Trp Ser TGG AG1 621	Glu GAA	AAC	Leu CTT 30	Phe TTC	CAG	Cys TGC 39	115 Phe TTC	Asn	TGC	Ser AGC	CTC	120 Cys TGC 57	Leu
Asn Gly AAT GGG 666	Thr ACC	GTG	His CAC 75	Leu CTC	TCC	Cys TGC 84	130 Gln CAG	Glu	AAA	Gln CAG	AAC	135 Thr ACC 02	Val GTG
Cys Thr TGC ACC 711	Cys TGC	140 His CAT 72	GCA	Gly	TTC	Phe TTT 29	145 Leu CTA	Arg AGA	Glu GAA 38	Asn AAC	GAG	150 Cys TGT 47	Val GTC
Ser Cys TCC TGT 756	Ser AGT	155 Asn AAC 76	TGT	Lys AAG	Lys AAA 77	AGC	160 Leu CTG	Glu GAG 78	TGC	Thr ACG	Lys AAG 79	TTG	Cys TGC
Leu Pro CTA CCC 801			GAG			AAG	GGC		GAG			GGĈ	
Thr Val ACA GTG 846	Leu CTG	185 Leu TTG 85	CCC	Leu CTG	Val GTC 86	ATT	190 Phe TTC	Phe TTT 87	GGT	Leu CTT	Cys TGC 88	CTT	Leu TTA
Ser Leu TCC CTC 891	Leu CTC	200 Phe TTC 90	ATT	Gly GGT	Leu TTA 90	Met ATG	205 Tyr TAT	Arg CGC 91	TAC	Gln CAA	Arg	TGG	Lys AAG
Ser Lys TCC AAG 936			TCC			Cys TGT			TCG		Pro	GAA	
Glu Gly GAG GGG 981	Glu GAG	230 Leu ( CTT ( 99)	GAA	Gly GGA	Thr ACT 99	Thr ACT	235 Thr ACT	Lys AAG 100	CCC	Leu CTG	Ala	CCA	Asn AAC

# FIG. 1C

Pro Ser Phe CCA AGC TTC 1026	245 Ser Pro Thr AGT CCC ACT 1035	250 Pro Gly Phe CCA GGC TTC 1044	Thr Pro Thr ACC CCC ACC	255 Leu Gly Phe CTG GGC TTC 1062
AGT CCC GTG	260 Pro Ser Ser CCC AGT TCC 1080	265 Thr Phe Thr ACC TTC ACC 1089	Ser Ser Ser TCC AGC TCC	270 Thr Tyr Thr ACC TAT ACC 1107
CCC GGT GAC	275 Cys Pro Asn TGT CCC AAC 1125	280 Phe Ala Ala TTT GCG GCT 1134	Pro Arg Arg CCC CGC AGA	285 Glu Val Ala GAG GTG GCA 1152
Pro Pro Tyr CCA CCC TAT 1161	290 Gln Gly Ala CAG GGG GCT 1170	295 Asp Pro Ile GAC CCC ATC 1179	Leu Ala Thr CTT GCG ACA	300 Ala Leu Ala GCC CTC GCC 1197
TCC GAC CCC	305 Ile Pro Asn ATC CCC AAC 1215	310 Pro Leu Gln CCC CTT CAG 1224	Lys Trp Glu AAG TGG GAG 1233	315 Asp Ser Ala GAC AGC GCC 1242
CAC AAG CCA	CAG AGC CTA	325 Asp Thr Asp GAC ACT GAT 1269	GAC CCC GCG	330 Thr Leu Tyr ACG CTG TAC 1287
Ala Val Val GCC GTG GTG 1296	335 Glu Asn Val GAG AAC GTG 1305	340 Pro Pro Leu CCC CCG TTG 1314	Arg Trp CGC TGG AA G	GGAATTC 1332

FIG. 2

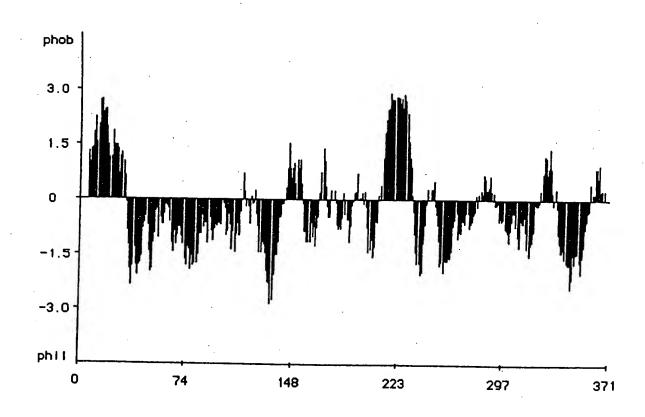


FIG. 3A

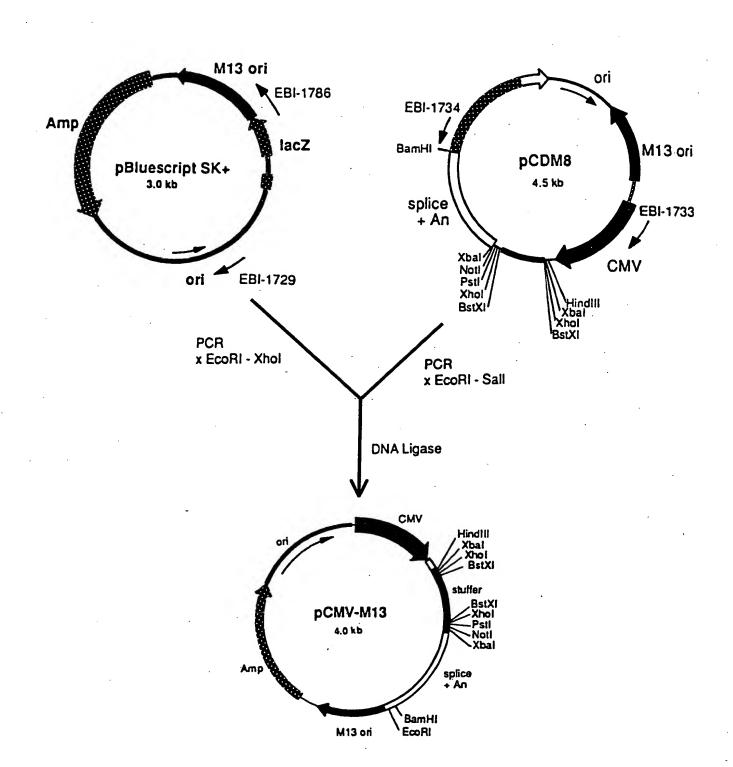
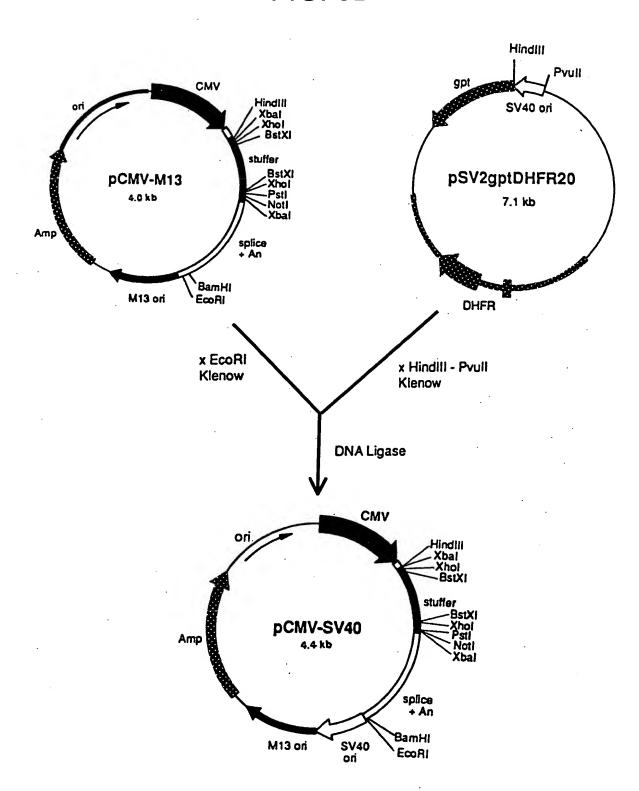
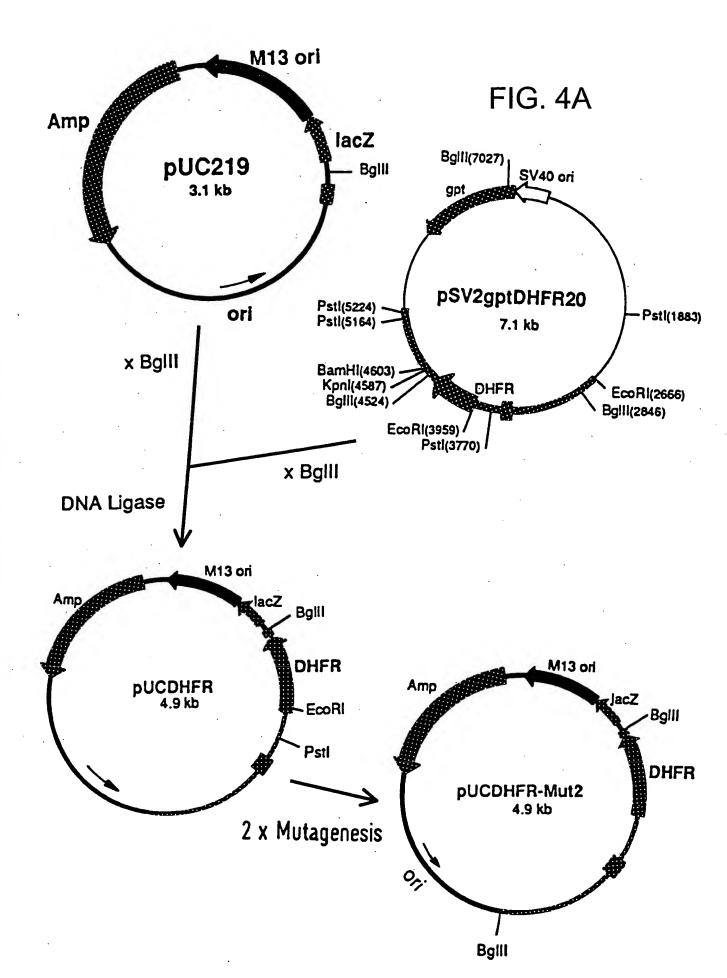
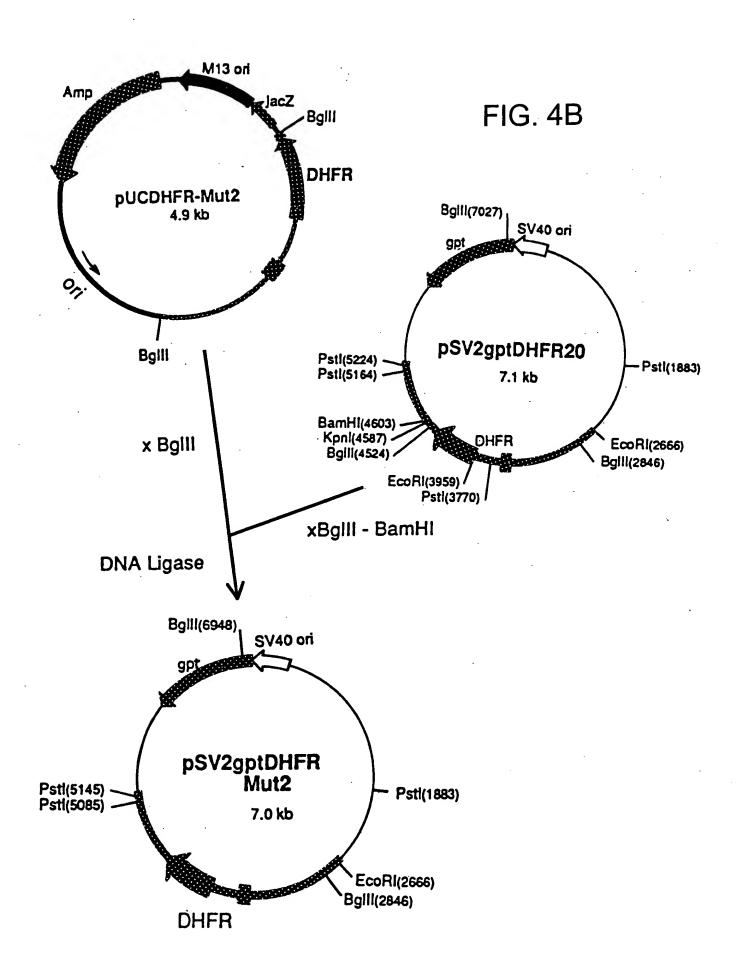
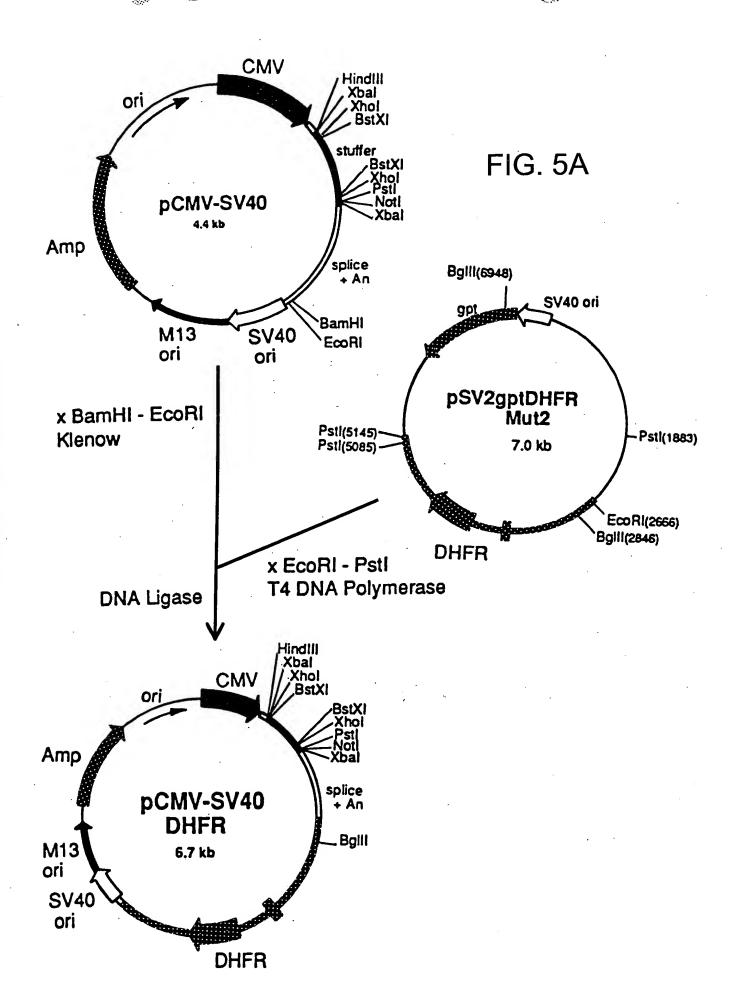


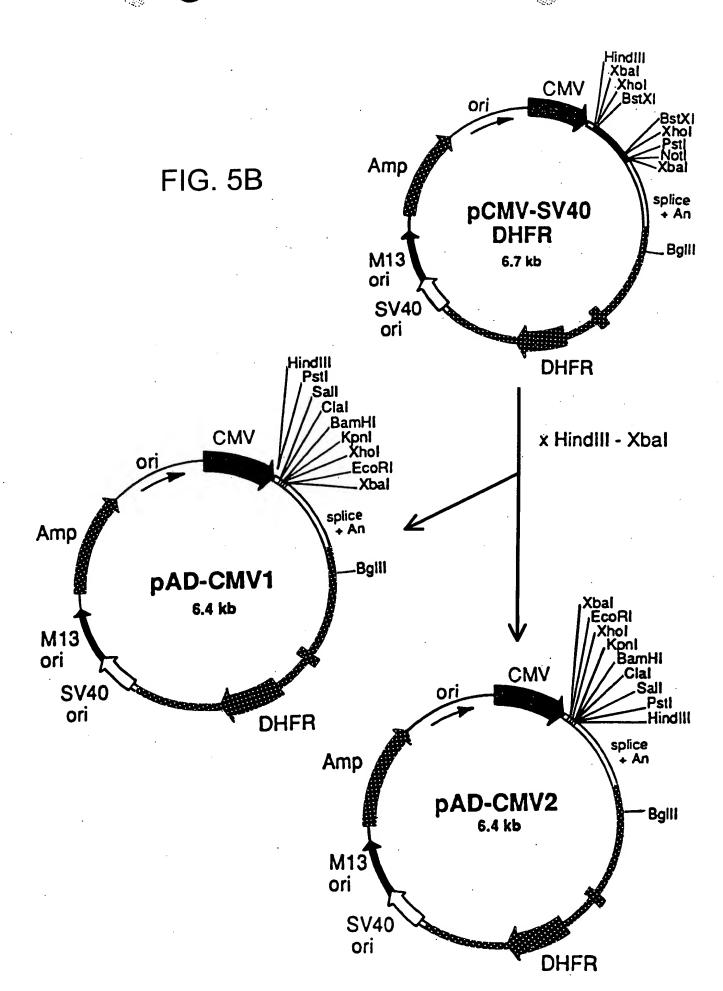
FIG. 3B











### FIG. 6A

pAD-CMV1 : 6414 bp

TC	GACATTG	A TTATTGACT	A GTTATTAAT!	A GTAATCAAT!	r acggggtcat	TAGTTCATAG	6
CC	CATATAT	GAGTTCCGC	G TTACATAAC1	TACGGTAAA	r GGCCCGCCTG	GCTGACCGCC	12
CA	ACGACCC	CGCCCATTG	A CGTCAATAA1	GACGTATGT:	r cccatagta	CGCCAATAGG	18
GA	CTTTCCAT	TGACGTCAA	r gggtggagt <i>i</i>	A TTTACGGTA	A ACTGCCCACT	TGGCAGTACA	24
TC	AAGTGTAT	CATATGCCA	A GTACGCCCC	TATTGACGTO	C AATGACGGTA	AATGGCCCGC	30
CT	GGCATTAT	GCCCAGTAC	A TGACCTTATO	G GGACTTTCC1	r acttggcagt	ACATCTACGT	36
AT	TAGTCATO	GCTATTACCA	TGGTGATGCG	GTTTTGGCAC	TACATCAATG	GGCGTGGATA	42
GC	GGTTTGAC	TCACGGGGAT	TTCCAAGTCT	CCACCCATI	GACGTCAATG	GGAGTTTGTT	48
TT	GGCACCAA	AATCAACGGG	ACTTTCCAAA	ATGTCGTAAC	AACTCCGCCC	CATTGACGCA	54
AA!	igggcggt	AGGCGTGTAC	GGTGGGAGGT	CTATATAAGC	AGAGCTCTCT	GGCTAACTAG	600
AG	AACCCACT	GCTTAACTGG	CTTATCGAAA	TTAATACGAC	CACTATAGG	GAGACCCAAG	<b>.</b> 660
CT	<b>PCTGCAGG</b>	TCGACATCGA	TGGATCCGGT	ACCTCGAGCG	CGAATTCTCT	AGAGGATCTT	720
TG	rgaaggaa	CCTTACTTCT	GTGGTGTGAC	ATAATTGGAC	AAACTACCTA	CAGAGATTTA	780
AAC	CTCTAAG	GTAAATATAA	AATTTTTAAG	TGTATAATGT	GTTAAACTAC	TGATTCTAAT	840
TGI	TTGTGTA	TTTTAGATTC	CAACCTATGG	AACTGATGAA	TGGGAGCAGT	GGTGGAATGC	900
CTI	TAATGAG	GAAAACCTGT	TTTGCTCAGA	AGAAATGCCA	TCTAGTGATG	ATGAGGCTAC	960
TGC	TGACTCT	CAACATTCTA	CTCCTCCAAA	AAAGAAGAGA	AAGGTAGAAG	ACCCCAAGGA	1020
CTT	TCCTTCA	GAATTGCTAA	GTTTTTTGAG	TCATGCTGTG	TTTAGTAATA	GAACTCTTGC	1080
ГТG	CTTTGCT	ATTTACACCA	CAAAGGAAAA	AGCTGCACTG	CTATACAAGA	AAATTATGGA	1140
AAA	ATATTTG	ATGTATAGTG	CCTTGACTAG	AGATCATAAT	CAGCCATACC	ACATTTGTAG	1200
AGG	TTTTACT	TGCTTTAAAA	AACCTCCCAC	ACCTCCCCT	GAACCTGAAA	CATAAAATGA	1260
ATG	CAATTGT	TGTTGTTAAC	TTGTTTATTG	CAGCTTATAA	TGGTTACAAA	TAAAGCAATA	1320
CA'	TCACAAA	TTTCACAAAT	AAAGCATTTT	TTTCACTGCA	TTCTAGTTGT	GGTTŢGTCCA	1380
LAC'	TCATCAA	TGTATCTTAT	CATGTCTGGA	TCAATTCTGA	GAAACTAGCC	TTAAAGACAG	1440

## FIG. 6B

ACAGCTTTGT TCTAGTCAG	C CAGGCAAGC	A TATGTAAAT	A AAGTTCCTC	A GGGAACTGAG	1500
GTTAAAAGAT GTATCCTGG	A CCTGCCAGA	C CTGGCCATT	C ACGTAAACA	G AAGATTCCGC	1560
CTCAAGTTCC GGTTAACAA	C AGGAGGCAA	C GAGATCTCA	A ATCTATTAC	T TCTAATCGGG	1620
TAATTAAAAC CTTTCAACT	A AAACACGGA	C CCACGGATG	T CACCCACTT	T TCCTTCCCCG	1680
GCTCCGCCCT TCTCAGTAC	T CCCCACCAT	T AGGCTCGCT	A CTCCACCTC	C ACTTCCGGGC	1740
GCGACACCCA CGTGCCCTC	r cccacccgac	GCTAACCCCG	CCCCTGCCCG	TCTGACCCCG	1800
CCCACCACCT GGCCCCGCC	CGTTGAGGAC	AGAAGAAACC	CCGGGCAGCC	GCAGCCAAGG	1860
CGGACGGGTA GACGCTGGG	G GCGCTGAGGA	GTCGTCCTCT	ACCTTCTCTC	CTGGCTCGGT	1920
GGGGGACGCG GTGGATCTC	A GGCTTCCGGA	AGACTGGAAG	AACCGGCTC#	GAACCGCTTG	1980
TCTCCGCGGG GCTTGGGCGC	G CGGAAGAATG	GCCGCTAGAC	GCGGACTTGG	TGCGAGGCAT	2040
CGCAGGATGC AGAAGAGCAA	A GCCCGCCGGG	AGCGCGCGGC	TGTACTACCC	CGCGCCTGGA	2100
GCGGCCACGC CGGACTGGGC	GGGCCGGCC	TGGTGGAGGC	GGAGTCTGAC	CTCGTGGAGG	2160
CGGGGCCTCT GATGTTCAA	TAGGATGCTA	GGCTTGTTGA	GGCGTGGCCT	CCGATTCACA	2220
AGTGGGAAGC AGCGCCGGGC	GACTGCAATT	TCGCGCCAAA	CTTGGGGGAA	GCACAGCGTA	2280
CAGGCTGCCT AGGTGATCGC	TGCTGCTGTC	ATGGTTCGAC	CGCTGAACTG	CATCGTCGCC	2340
GTGTCCCAGA ATATGGGCAT	CGGCAAGAAC	GGAGACCTTC	CCTGGCCAAT	GCTCAGGTAC	2400
TGGCTGGATT GGGTTAGGGA	AACCGAGGCG	GTTCGCTGAA	TCGGGTCGAG	CACTTGGCGG	2460
AGACGCGCGG GCCAACTACT	TAGGGACAGT	CATGAGGGGT	AGGCCCGCCG	GCTGCTGCCC	2520
TTGCCCATGC CCGCGGTGAT	CCCCATGCTG	TGCCAGCCTT	TGCCCAGAGG	CGCTCTAGCT	2580
GGGAGCAAAG TCCGGTCACT	GGGCAGCACC	ACCCCCGGA	CTTGCATGGG	TAGCCGCTGA	2640
GATGGAGCCT GAGCACACGT	GACAGGGTCC	CTGTTAACGC	AGTGTTTCTC	TAACTTTCAG	2700
GAACGAGTTC AAGTACTTCC	AAAGAATGAC	CACCACCTCC	TCAGTGGAAG	GTAAACAGAA	2760
CCTGGTGATT ATGGGCCGGA	AAACCTGGTT	CTCCATTCCT	GAGAAGAATC	GACCTTTAAA	2820
GGACAGAATT AATATAGTTC	TCAGTAGAGA	GCTCAAGGAA	CCACCACAAG	GAGCTCATTT	2880
CTTGCCAAA AGTCTGGACC	ATGCCTTAAA	ACTTATTGAA	CAACCAGAGT	TAGCAGATAA	2940
GTGGACATG GTTTGGATAG	TTGGAGGCAG	TTCCGTTTAC	AAGGAAGCCA	TGAATCAGCC	3000

## FIG. 6C

AGGCCAT	CTC	AGACTCTTTC	F TGACAAGGAT	CATGCAGGA	A TTTGAAAGTG	ACACGTTCTT	306
CCCAGAA	ATT	GATTTGGAGA	AATATAAACI	TCTCCCAGA	G TACCCAGGGG	TCCTTTCTGA	312
AGTCCAG	GAG	GAAAAAGGCA	TCAAGTATAA	ATTTGAAGT	C TATGAGAAGA	AAGGCTAACA	318
GAAAGAT	ACT	TGCTGATTGA	CTTCAAGTTC	TACTGCTTTC	CTCCTAAAAT	TATGCATTTT	324
TACAAGA	CCA	TGGGACTTGT	GTTGGCTTTA	GATCCTGTGC	CATCCTGGGCA	ACTGTTGTAC	330
TCTAAGC	CAC	TCCCCAAAGT	CATGCCCCAG	CCCCTGTATA	ATTCTAAACA	ATTAGAATTA	336
TTTTCAT	TTT	CATTAGTCTA	ACCAGGTTAT	' ATTAAATAT	A CTTTAAGAAA	CACCATTTGC	342
CATAAAGT	TTC	TCAATGCCCC	TCCCATGCAG	CCTCAAGTGC	G CTCCCCAGCA	GATGCATAGG	348
GTAGTGT	STG	TACAAGAGAC	CCCAAAGACA	TAGAGCCCCI	GAGAGCATGA	GCTGATATGG	354
GGGCTCAT	AG	AGATAGGAGC	TAGATGAATA	AGTACAAAGG	GCAGAAATGG	GTTTTAACCA	360
GCAGAGCT	'AG	AACTCAGACT	TTAAAGAAAA	TTAGATCAAA	GTAGAGACTG	AATTATTCTG	366
CACATCAG	AC	TCTGAGCAGA	GTTCTGTTCA	CTCAGACAGA	AAATGGGTAA	ATTGAGAGCT	372
GGCTCCAT	TG	TGCTCCTTAG	AGATGGGAGC	AGGTGGAGGA	TTATATAAGG	TCTGGAACAT	3780
TTAACTTC	TC	CGTTTCTCAT	CTTCAGTGAG	ATTCCAAGGG	ATACTACAAT	TCTGTGGAAT	3840
GTGTGTCA	GT	TAGGGTGTGG	AAAGTCCCCA	GGCTCCCCAG	CAGGCAGAAG	TATGCAAAGC	3900
ATGCATCT	CA	ATTAGTCAGC	AACCAGGTGT	GGÄAAGTCCC	CAGGCTCCCC	AGCAGGCAGA	3960
AGTATGCA	AA	GCATGCATCT	CAATTAGTCA	GCAACCATAG	TCCCGCCCCT	AACTCCGCCC	4020
ATCCCGCC	CC	TAACTCCGCC	CAGTTCCGCC	CATTCTCCGC	CCCATGGCTG	ACTAATTTTT	4080
'ATTATTI	TG	CAGAGGCCGA	GGCGCCTCTG	AGCTATTCCA	GAAGTAGTGA	GGAGGCTTTT	4140
TGGAGGC	CT <sub>.</sub>	AGGCTTTTGC	AAAAAAGCTA	ATTCAGCCTG	AATGGCGAAT	GGGACGCGCC	4200
CTGTAGCG	GC	GCATTAAGCG	CGGCGGGTGT	GGTGGTTACG	CGCAGCGTGA	CCGCTACACT	4260
GCCAGCG	CC	CTAGCGCCCG	CTCCTTTCGC	TTTCTTCCCT	TCCTTTCTCG	CCACGTTCGC	4320
CGGCTTTC	CC (	CGTCAAGCTC	TAAATCGGGG	GCTCCCTTTA	GGGTTCCGAT	TTAGTGCTTT	4380
CGGCACC	rc (	GACCCCAAAA	ACTTGATTAG	GGTGATGGTT	CACGTAGTGG	GCCATCGCCC	4440
GATAGAC	GG '	TTTTTCGCCC	TTTGACGTTG	GAGTCCACGT	TCTTTAATAG	TGGACTCTTG	4500
TCCAAACT	rg (	GAACAACACT	CAACCCTATC	TCGGTCTATT	CTTTTGATTT	ATAAGGGATT	4560

### FIG. 6D

TTGCCGATTT CGGCCTA	TTG GTTAAAAAA	r gagctgattt	AACAAAATT	TAACGCGAAT	4620
TTTAACAAAA TATTAAC	GTT TACAATTTC	A GGTGGCACTT	TTCGGGGAAA	TGTGCGCGGA	4680
ACCCCTATTT GTTTATT	TTT CTAAATACA1	TCAAATATGT	ATCCGCTCAT	GAGACAATAA	4740
CCCTGATAAA TGCTTCA	ATA ATATTGAAAA	AGGAAGAGTA	TGAGTATTCA	ACATTTCCGT	4800
GTCGCCCTTA TTCCCTT	TTT TGCGGCATTI	TGCCTTCCTG	TTTTTGCTCA	CCCAGAAACG	4860
CTGGTGAAAG TAAAAGA	TGC TGAAGATCAG	TTGGGTGCAC	GAGTGGGTTA	CATCGAACTG	4920
GATCTCAACA GCGGTAA	GAT CCTTGAGAGT	TTTCGCCCCG	AAGAACGTTT	TCCAATGATG	4980
AGCACTTTTA AAGTTCT	GCT ATGTGGCGCG	GTATTATCCC	GTATTGACGC	CGGGCAAGAG	5040
CAACTCGGTC GCCGCAT	ACA CTATTCTCAG	AATGACTTGG	TTGAGTACTC	ACCAGTCACA	5100
GAAAAGCATC TTACGGA	TGG CATGACAGTA	AGAGAATTAT	GCAGTGCTGC	CATAACCATG	5160
AGTGATAACA CTGCGGC	CAA CTTACTTCTG	ACAACGATCG	GAGGACCGAA	GGAGCTAACC	5220
GCTTTTTTGC ACAACAT	GGG GGATCATGTA	ACTCGCCTTG	ATCGTTGGGA	ACCGGAGCTG	5280
AATGAAGCCA TACCAAA	CGA CGAGCGTGAC	ACCACGATGC	CTGTAGCAAT	GGCAACAACG	5340
TTGCGCAAAC TATTAACI	GG CGAACTACTT	ACTCTAGCTT	CCCGGCAACA	ATTAATAGAC	5400
TGGATGGAGG' CGGATAAA	GT TGCAGGACCA	CTTCTGCGCT	CGGCCCTTCC	GGCTGGCTGG	5460
TTTATTGCTG ATAAATCT	GG AGCCGGTGAG	CGTGGGTCTC	GCGGTATCAT	TGCAGCACTG	5520
GGGCCAGATG GTAAGCCC	CTC CCGTATCGTA	GTTATCTACA	CGACGGGGAG	TCAGGCAACT	5580
ATGGATGAAC GAAATAGA	CA GATCGCTGAG	ATAGGTGCCT	CACTGATTAA	GCATTGGTAA	5640
CTGTCAGACC AAGTTTAC	TC ATATATACTT	TAGATTGATT	TAAAACTTCA	TTTTAATTT	5700
AAAAGGATCT AGGTGAAG	AT CCTTTTTGAT	AATCTCATGA	CCAAAATCCC	TTAACGTGAG	5760
TTTTCGTTCC ACTGAGCG	TC AGACCCCGTA	GAAAAGATCA	AAGGATCTTC	TTGAGATCCT	5820
TTTTTCTGC GCGTAATC	TG CTGCTTGCAA	ACAAAAAAAC	CACCGCTACC	AGCGGTGGTT	5880
GTTTGCCGG ATCAAGAG	CT ACCAACTCTT	TTTCCGAAGG	TAACTGGCTT	CAGCAGAGCG	5940
CAGATACCAA ATACTGTC	CT TCTAGTGTAG	CCGTAGTTAG	GCCACCACTT	CAAGAACTCT	6000
STAGCACCGC CTACATAC	CT CGCTCTGCTA	ATCCTGTTAC (	CAGTGGCTGC	TGCCAGTGGC	6060
SATAAGTCGT GTCTTACC	GG GTTGGACTCA	AGACGATAGT '	TACCGGATAA (	GGCGCAGCGG	6120

### FIG. 6E

TCGGGCTGAA	CGGGGGGTTC	GTGCACACAG	CCCAGCTTGG	AGCGAACGAC	CTACACCGAA	6180
CTGAGATACC	TACAGCGTGA	GCATTGAGAA	AGCGCCACGC	TTCCCGAAGG	GAGAAAGGCG	6240
GACAGGTATC	CGGTAAGCGG	CAGGGTCGGA	ACAGGAGAGC	GCACGAGGGA	GCTTCCAGGG	6300
GGAAACGCCT	GGTATCTTTA	TAGTCCTGTC	GGGTTTCGCC	ACCTCTGACT	TGAGCGTCGA	6360
TTTTTGTGAT	GCTCGTCAGG	GGGGCGGAGC	CTATGGAAAA	ACGCCAGCAA	CGCC	

FIG. 7A

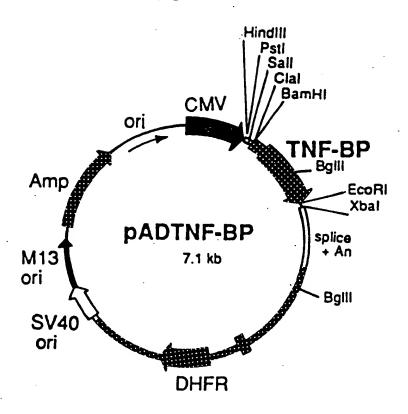


FIG. 7B

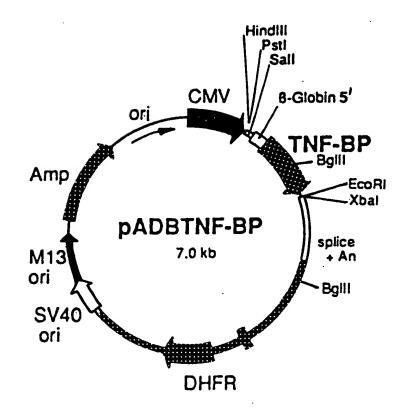


FIG. 7C

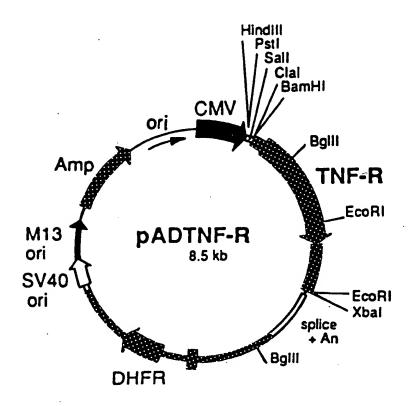
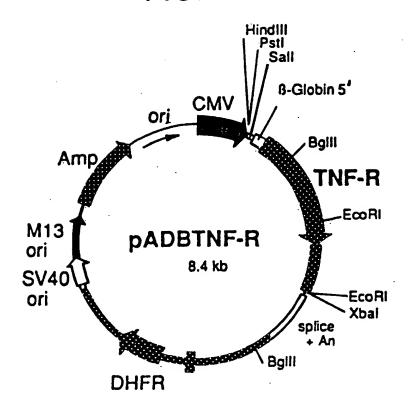


FIG. 7D



#### FIG. 8A

raTNF-R

														TGGA				60	
														TTCI			_	20	
														TTCA				80	
		ATTG	CTGC	CCTC	STC C	CCAG	CCCC	CA AI	GGGG	GAGT	GAG	AGAC	GCC	ACTG	CCG	GCC	2	40	
GG																		•	
	5/1										/11								
ATO	G GG	CIC	ccc	) ATC	GTG	CCI	GGC	CTG	CTG	CTG	TCA	CTC	GTG	CTC	CTC	GCI	CTO	CTO	ATG
Met	: Gl <sub>3</sub>	/ Leu	Pro	Ile	. Val	. Pro	Gly	Leu	Lev	Leu	Ser	Let	ı Val	. Leu	Le	a Ala	Let	ı Lei	Met
30	5/21		•							335	/31								
GGG	S ATA	CAC	CCA	TCA	GGG	GTC	ACC	GGA	CTG	GTT	CCT	TCT	CTT	GGT	GAC	CGG	GAC	AAC	AGG
Gly	/ Ile	His	Pro	Ser	: Gly	, Val	Thr	Gly	Leu	Val	Pro	Ser	Leu	Gly	Asr	Arc	Gli	1 Lvs	Arg
365	5/41				_			_		395	/51			_	•	-			·9
GA:	CAA 1	TTG	TGI	CCC	CAG	GGA	AAG	TAT	GCC	CAT	CCA	AAC	AAT	' AAT	TCC	ATC	TGC	TGO	ACC
Asp	) Asr	Leu	Cys	Pro	Gln	Gly	Lys	Tyr	Ala	His	Pro	Lys	Asn	Asn	Sei	Ile	Cvs	CVS	Thr
425	5/61		_			_	-	-		455	/71	-					-3.		• • • • • • • • • • • • • • • • • • • •
		CAC	: AAA	GGA	ACC	TAC	TTG	GTG	AGT	GAC	TGT	CCA	AGC	CCA	GGG	CAG	GAI	י ארי	GTC
Lvs	CVS	His	Lvs	Glv	Thr	Tvr	Leu	Val	Ser	Asp	Cvs	Pro	Ser	Pro	Gla	, Gl	Gli	i The	: Val
485	/81		-			-4-					/91				,		. 01.	1 1111	. vai
		CTC	TCT	CAT	. AAA	GGC	ACC	ттт	ACA			CAG	AAC	CAC	GTC	. PCP	CAG	TO	CTC
Cvs	Gly	Leu	Ser	His	Lvs	Glv	Thr	Phe	Thr	Ala	Ser	Gln	Asn	His	Val	Aro	Gla		Leu
545	/101					1					/111				· · · ·	. ALY	GII	. Cys	reu
			ACA	TGT	CGG	AAA	GAA	ATG	TTC				אריי מידא	тСт	רריז	TGC		CCT	GAC
Se	Cvs	Lvs	Thr	Cvs	Ara	Lvs	Glu	Met	Phe	Gla	Val	Glu	Tla	Sar	Dro	Cue	Tue	31-	Asp
605	/121			. 0,10	9	_,,				635	/131	010		361	210	, cys	րֆջ	. WIS	Asp
			GTG	тст	GGC	TGC	AAG	226	ממ				CGC	TAC	CTC	. ACT	C > C		CAT
Met	Asn	Thr	Val	Cve	Glv	Cve	Tue	Tare	hen	Gla	Pho	Gla	λ = c	TAC	Tan	. Co-	GAG	ACG	His
665	/141	* ****	V G T	Cys	GLY	Cys	Lys	гåз	voli	605	/151	GIII	Arg	Tyr	ren	ser	Glu	Thr	His
			GTG	GAC	TOC	ACC	CCĊ	TCC	mmc	222	CCC 131	300	CMC	363	<b>&gt;</b> ma				GAG
Pho	Gla	Cve	Val	Agn	Cve	Sor	D-0	Cur	Pho	VVI	63	MCC	77-1	ACA	ATC	CCC	TGT	AAG	GAG Glu
725	/161	Cys	V - 1	ASP	Cys	Ser	PIO	Cys	rne	ASI	/171	Inf	val	The	тте	Pro	Cys	Lys	Glu
			ACC	GTG	ጥርጥ	220	TICC	CNC	CCN	733	WWC	m m m	CMA	3.00	~~				ACC
tue	Gla	Aco	Th-	V21	Cue	y cz	Cua	CAC	NIA	Clas	110	111	CIA	Ser	GGA	AAT	GAG	TGC	ACC
705	/181	VOII	1111	VAI	Cys	ASII	CAR	nis	ATA			Pne	Leu	ser	GTÄ	Asn	Glu	Cys	Thr
		NGC.	CAC	TCC	226	222	220	CNC	C		191		C#C	TGC					
Bro	Cue	NGC -	CVC	Cue	AAG	AAA	AAT	CAG	GAA	TGT	ATG	AAG	CIG	TGC	CTA	CCT	CCA	GTT	GCA
RAS	/201	SEL	nis	Cys	rys	гЛя	ASII	GIN	GIU	875/	met	гла	Leu	Cys	rea	Pro	Pro	Val	Ala
			220	CCC	CAG	CNC	mc »	CCM	<b>1</b> C M			080	mm-C	CCT					
yen	V=1	Th-	Aen	Bro	Gla	200	202	CIT	WCI	310	U10	Tan	116	CCT	CTG	GTT	ATC	TTC	CTA
905	/221	1111	A3II		GIII	vəb	Ser	GIY	Int	VIG V	VAL	reu	rea	Pro	reu	Val	Ile	Phe	Leu
		TCC	CTT	mm n	TTC.	mmm.	200	mc-0		935/	231								
GUI	Ton	Cue	TOU	Ton	Pho	111	TIC	160	AIC	AGT	CTA	CTG	TGC	CGA	TAT	CCC	CAG	TGG	AGG
GES	/241	Cys	Leu	Leu	File	Pne	TTE	Cys	TTE	Ser	ren	ren	Суз	Arg	Tyr	Pro	Gln	Trp	Arg
		CTC	TAC	TCC	A TC	מימי מ	TCT.	100	~ h m	995/	72I								
D-A	NGG	W-1	TAC	50-	TIC	MIL	Con	AGG	GAT	TCA	GCT	CCT	GTC	AAA	GAG	GTG	GAG	GGT	GAA
1021	719 5/261	VAI	ıyı	ser	116	116	Cys	Arg	Asp				val	Lys	Glu	Val	Glu	Gly	Glu
			B-OM		~~~	0mx				1055	/2/1								
Clas	ATT	GIT	WCI.	AAG	500	CTA	ACT	CCA	GCC	TCT	ATC	CCA	GCC	TTC	AGC	CCC	AAC	CCC	GGC
GIA	116	AST	Thr	rys	Pro	Leu	Thr	Pro	Ala	Ser	Ile	Pro-	Ala	Phe	Ser	Pro	Asn	Pro	Gly
	5/281									1115	/291	•							-
TTC	AAC	CCC	ACT	CTG	GGC	TTC	AGC	ACC	ACC	CCA	CGC	TTC	AGT	CAT	CCT	GTC	TCC	AGT	ACC
Phe	Asn	Pro	Thr	Leu	Gly	Phe	Ser	Thr	Thr	Pro	Arg	Phe	Ser	His	Pro	Val	Ser	Ser	Thr
1145	5/301	•								1175	/311								
CCC	ATC	AGC	CCC	GTC	TTC	GGT	CCT	AGT	AAC	TGG	CAC	AAC	TTC	GTG	CCA	CCT	GTA	AGA	GAG
Pro	Ile	Ser	Pro	Val	Phe	Gly	Pro	Ser	Asn	Trp	His	Asn	Phe	Val	Pro	Pro	Val	Ara	Glu
1205	/321									1235	/331	_						-	
GTG	GTC	CCA	ACC	CAG	GGT	GCT	GAC	CCT	CTC	CTC	TAC	GGA	TCC	CTC	AAC	CCT	GTG	CCA	ATC
Val	Val	Pro	Thr	Gln	Gly	Ala	Asp	Pro	Leu	Leu	Tyr	Gly	Ser	Leu	Asn	Pro	Va 1	Pro	Tle
					_	-	-				-	-	_	'					

#### FIG. 8B

1265/341		1295/351	
CCC GCC CCT GTT CGG	AAA TGG GAA GAC GTC	GTC GCG GCC CAG CCA CAA CGC	CTT GAC ACT
Pro Ala Pro Val Arg	Lys Trp Glu Asp Val	Val Ala Ala Gln Pro Gln Arg	Leu Asp Thr
1325/361	_	1355/371	
GCA GAC CCT GCG ATG	CTG TAT GCT GTG GTG	GAT GGC GTG CCT CCG ACA CGC	TGG AAG GAG
Ala Asp Pro Ala Met	Leu Tyr Ala Val Val	Asp Gly Val Pro Pro Thr Arg	Trp Lys Glu
1385/381		1415/391	
TTC ATG CGG CTC CTG	GGG CTG AGC GAG CAC	GAG ATC GAG CGG CTG GAG CTG	CAG AAC GGG
Phe Met Arg Leu Leu	Gly Leu Ser Glu His	Glu Ile Glu Arg Leu Glu Leu	Gln Asn Gly
1445/401		1475/411	
CGT TGC CTC CGC GAG	GCT CAT TAC AGC ATG	CTG GAA GCC TGG CGG CGC CGC	ACA CCG CGA
Arg Cys Leu Arg Glu	Ala His Tyr Ser Met	Leu Glu Ala Trp Arg Arg Arg	Thr Pro Arg
1505/421	•	1535/431	
CAC GAG GCC ACG CTG	GAC GTA GTG GGC CGC	GTG CTT TGC GAC ATG AAC CTG	CGT GGC TGC
	Asp Val Val Gly Arg	Val Leu Cys Asp Met Asn Leu	Arg Gly Cys
1565/441		1595/451	
CTG GAG AAC ATC CGC	GAG ACT CTA GAA AGC	CCT GCC CAC TCG TCC ACG ACC	CAC CTC CCG
	Glu Thr Leu Glu Ser	Pro Ala His Ser Ser Thr Thr	His Leu Pro
1625/461			•
CGA TAA		•	
Arg Stop		COMO CONCONO COMOCONOCAM	1680
		ACTC GAAGGACCAT CCTGCTAGAT	1740
		AGGG GGCAGGCTCG ATCTGGCAGG	1800
		rggt gtacatagct tttcccagct	1860
		AGGG AAGTGTGCCA TCTGCTCCCA	1920
		GTGG AGAAAAAGCA CAATCTATCT ICTC AGGGCCTCCT CAGTTGATTT	1980
		ATTG ATTATATCAC ACTAATGGAT	2040
		ANCA GTGGGGTCTC CAGCTGGAGC	2100
		AAAAAAAAAAAAAAAAAAAAAAAAA	2160
CCCCGACTCT TGTAAATAG	CH CINAMANICI MAMAGI	MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2100



#### huTNF-R

GAATTCTCTG GACTGAGGCT CCAGTTCTGG CCTTTGGGGT TCAAGATCAC TGGGACCAGG 60
CCGTGATCTC TATGCCCGAG TCTCAACCCT CAACTGTCAC CCCAAGGCAC TTGGGACGTC 120
CTGGACAGAC CGAGTCCCGG GAAGCCCCAG CACTGCCGCT GCCACACTGC CCTGAGCCCA 180
AATGGGGGAG TGAGAGGCCA TAGCTGTCTG GC

213/1 243/11 ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu Leu Glu Leu Leu Val 303/31 273/21 GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg 333/41 363/51 GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr 393/61 423/71 AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp 483/91 453/81 TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu 513/101 543/111 AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp 603/131 CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu 633/141 663/151 TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu 723/171 AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val 753/181 783/191 TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG Ser Cys Ser Asn Cys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu 813/201 843/211 AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA GTG CTG TTG CCC CTG GTC ATT TTC TTT Asn Val Lys Gly Thr Glu Asp Ser Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe 873/221 903/231 GGT CTT TGC CTT TTA TCC CTC CTC TTC ATT GGT TTA ATG TAT CGC TAC CAA CGG TGG AAG Gly Leu Cys Leu Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys 933/241 963/251 TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG ACA CCT GAA AAA GAG GGG GAG CTT GAA Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu Gly Glu Leu Glu 1023/271 GGA ACT ACT AAG CCC CTG GCC CCA AAC CCA AGC TTC AGT CCC ACT CCA GGC TTC ACC Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr 1053/281 1083/291 CCC ACC CTG GGC TTC AGT CCC GTG CCC AGT TCC ACC TTC ACC TCC AGC TCC ACC TAT ACC Pro Thr Leu Gly Phe Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr 1113/301 1143/311 CCC GGT GAC TGT CCC AAC TTT GCG GCT CCC CGC AGA GAG GTG GCA CCA CCC TAT CAG GGG Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly 1173/321 1203/331 GCT GAC CCC ATC CTT GCG ACA GCC CTC GCC TCC GAC CCC ATC CCC AAC CCC CTT CAG AAG Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys

#### FIG. 9B

1263/351 TGG GAG GAC AGC GCC CAC AAG CCA CAG AGC CTA GAC ACT GAT GAC CCC GCG ACG CTG TAC Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr Leu Tyr 1293/361 1323/371 GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAG GAA TTC GTG CGC CGC CTA GGG CTG Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu
Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr Leu Tyr 1293/361 1323/371 GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAG GAA TTC GTG CGG CGC CTA GGG CTG
1293/361 1323/371 GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAG GAA TTC GTG CGG CGC CTA GGG CTG
GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAG GAA TTC GTG CGG CGC CTA GGG CTG
Ala Val Val Glu Asn Val Dro Dro Lou Arg Trn Lue Glu Dhe Val Arg Trn Lue Glu Dh
1353/381 1383/391
AGC GAC CAC GAG ATC GAT CGG CTG GAG CTG CAG AAC GGG CGC TGC CTG CGC GAG GCG CAA
Ser Asp His Glu Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
1413/401 1443/411
TAC AGC ATG CTG GCG ACC TGG AGG CGG CGC ACG CGG CGC GAG GCC ACG CTG GAG CTG
Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu
1473/421 1503/431
CTG GGA CGC GTG CTC CGC GAC ATG GAC CTG CTG GGC TGC CTG GAG GAC ATC GAG GAG GCG
Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu Asp Ile Glu Glu Ala
1533/441 1563/451
CTT TGC GGC CCC GCC CTC CCG CCC GCG CCC AGT CTT CTC AGA TGA 1580
Leu Cys Gly Pro Ala Ala Leu Pro Pro Ala Pro Ser Leu Leu Arg Stop
GGCTGCGCCC CTGCGGGCAG CTCTAAGGAC CGTCCTGCGA 1620
GATCGCCTTC CAACCCCACT TTTTTCTGGA AAGGAGGGGT CCTGCAGGGG CAAGCAGGAG 1680
CTAGCAGCCG CCTACTTGGT GCTAACCCCT CGATGTACAT AGCTTTTCTC AGCTGCCTGC 1740
GCGCCGCCGA CAGTCAGCGC TGTGCGCGCG GAGAGAGGTG CGCCGTGGGC TCAAGAGCCT 1800
GAGTGGGTGG TTTGCGAGGA TGAGGGACGC TATGCCTCAT GCCCGTTTTG GGTGTCCTCA 1860
CCAGCAAGGC TGCTCGGGGG CCCCTGGTTC GTCCCTGAGC CTTTTTCACA GTGCATAAGC 1920
AGTITITIT GITTITGITI TGITTITGITI TGITTITAAA TCAATCATGI TACACTAATA 1980
GAAACTTGGC ACTCCTGTGC CCTCTGCCTG GACAAGCACA TAGCAAGCTG AACTGTCCTA 2040
AGGCAGGGC GAGCACGGAA CAATGGGGCC TTCAGCTGGA GCTGTGGACT TTTGTACATA 2100
CACTAAAATT CTGAAGTTAA AAAAAAAAA AAAAGGAATT C 2141

FIG.10

